



## Special Session Greening Goods Deliveries

### **Description:**

The transport sector is responsible for about a quarter of Green House Gas (GHG) emissions, with 95% of energy for transport depending on fossil fuel (United Nations, 2021). Freight transport and supply chain operations correspond to a significant share of the impact of transportation on climate change and air quality. Last-mile deliveries are constantly increasing. In the European Union (EU), a 25% increase of consumer e-commerce deliveries was observed in 2020 due to the pandemic, a trend which is likely to persist (European Commission, 2021). On the other hand, the EU transport sector accounts for over 10,000,000 jobs (4.5% of total workforce) and represents 4.6% of gross domestic product (GDP) (European Commission, 2013). Promoting the sustainability of the EU transport sector in terms of socio-economic development in a way that respects and protects planetary boundaries requires the green transition of courier and transportation operations.

The session is based on the current EU policy regarding the targets and strategies for the green transition of freight transportation and logistics, with focus on last-mile delivery, courier and postal services and on the extensive review of state-of-the-art methods and tools that can be used to implement a green strategy. For the first time, it presents, a set of user-friendly interactive tools that have been developed to provide education and training to professionals in regard to governance, management and operations for the transportation and delivery of goods, to raise awareness on the footprint of relevant activities and to guide towards developing and implementing green strategies.

Speakers at the session are partners from the EU funded project **Couriers Go Green!** and stakeholders involved in courier, postal and transportation services.

### **Session Moderator:**

- Eftihia Nathanail, University of Thessaly

### **Topics and Presenters:**

#### **Urban deliveries: Challenges, trends and practices**

- Eftihia Nathanail, Professor at the University of Thessaly, Greece

#### **Green transition of courier, transport and delivery companies through education**

- Nikolaos Gavanas, Assistant Professor at the University of Thessaly, Greece

#### **Strategic green planning for freight transport operators**

- Katerina Valta, Director of Circular Economy and Climate Change Projects at DRAXIS ENVIRONMENTAL SA, Greece

#### **Measure my green readiness**

- Christina Papadaskalopoulou, Circular economy and Climate resilience Expert at DRAXIS ENVIRONMENTAL SA. Greece

#### **Professional Certification for Courier companies and professionals on greening last-mile deliveries**

- Stefanos Spanos, Director & CTO at Isonike Ltd., Greece



## Good practices and methods on greening last-mile deliveries

- Konstantinos Kokkinos, Dept. of Digital Systems at the University of Thessaly, Greece

### Moderator.....



#### Eftihia Nathanail

Eftihia Nathanail is a Professor of Transportation Systems Design and Evaluation, founder and director of the Traffic, Transportation and Logistics Laboratory (TTLog) and Rector of the School of Engineering of the University of Thessaly. Her fields of research are sustainable transportation planning, transportation system design, intelligent transportation systems, behavioral modeling, intermodal transportation, logistics, multicriteria evaluation and optimization

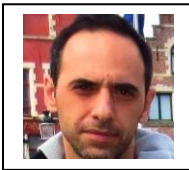
### Urban deliveries: Challenges, trends and practices.....



#### Eftihia Nathanail

Eftihia Nathanail is a Professor of Transportation Systems Design and Evaluation, founder and director of the Traffic, Transportation and Logistics Laboratory (TTLog) and Rector of the School of Engineering of the University of Thessaly. Her fields of research are sustainable transportation planning, transportation system design, intelligent transportation systems, behavioral modeling, intermodal transportation, logistics, multicriteria evaluation and optimization.

### Green transition of courier, transport and delivery companies through education .....



#### Nikolaos Gavanas

Nikolaos Gavanas is an Assistant Professor in Transport at the Department of Urban Planning and Regional Development. He holds a PhD in Transport from the Department of Civil Engineering of the Aristotle University of Thessaloniki (AUTH). He has a MSc in Transport Planning and a Diploma in Civil Engineering from the Aristotle University of Thessaloniki. His scientific interests focus on transport planning, traffic engineering, innovative and sustainable mobility and the relationship between transport and spatial development.

### Strategic green planning for freight transport operators.....



#### Katerina Valta

Katerina Valta is the Director of Circular Economy and Climate Change Projects at DRAXIS ENVIRONMENTAL SA. She holds degrees in Chemical Engineering (PhD), Environmental Engineering (MSc), and Business (MBA). As the Director of Circular Economy and Climate Change Projects at DRAXIS ENVIRONMENTAL SA, her role includes performing Life Cycle Assessments (LCAs), designing solid waste management plans, and driving waste management initiatives.

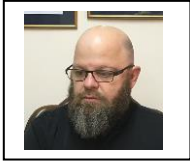
### Measure my green readiness.....



#### Christina Papadaskalopoulou

Christina Papadaskalopoulou is a Circular economy and Climate resilience Expert at DRAXIS ENVIRONMENTAL SA. Greece. She holds a PhD in sustainable waste management and circular economy, as well as, a MSc on Energy management & environmental protection (National Technical University of Athens, Greece), while her bachelor's degree is on Business administration (University of Piraeus, Greece). She has a more than 13-year experience mainly on the implementation of EU co-funded research projects in the fields of climate change adaptation and circular economy.

### Professional Certification for Courier companies and professionals on greening last-mile deliveries.....



**Stefanos Spanos**

Stefanos Spanos is Director & CTO at ISONIKE Ltd. He holds degrees in Business Administration (MBA) and Computer Science with Economics (BSc). He is Lead Tutor of Professional Training on the aforementioned Management Systems Disciplines and Third party Lead Auditor of Management Systems (ISO 27001, ISO 20000-1, ISO 22301, ISO 9001, ISO 14001, OHSAS 18001, a.o.). He has experience in a wide variety of sectors, including maritime, construction, manufacturing, transport, quarries, services, education etc and his main interests are in: Management Systems, Training, Maritime, Human Resources, Business Ethics.

***Good practices and methods on greening last-mile deliveries.....***



**Konstantinos Kokkinos**

Dr. Kokkinos holds a B.Sc. in Physics, from Univ. of Thessaloniki, Greece, a M.Sc. & PhD in Computer Science from UoM, WMU, U.S.A. (1995 and 2002 respectively). He is an IEEE member, an OpenMI-Assoc. member, and currently an Assistant Professor of the Digital Systems Dept. at Univ. of Thessaly, Greece. His major research interests include Decision Support Systems, Fuzzy Logic and Soft Computing, Integrated Modelling and Simulation, Artificial Intelligence, and Environmental Software. Dr. Kokkinos has participated in 12 NSF, FP7, Horizon 2020 and Erasmus+ funded projects and has published over 65 Papers.